

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: JANIS DOTE Examiner #: 68274 Date: 5/18/05
 Art Unit: 1756 Phone Number 305-571-272-1382 Serial Number: 10/734,380
 Mail Box and Bldg/Room Location: REM 9C95 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: IMAGING MEMBERS

Inventors (please provide full names): SATCHIDANA ND, MISHRA; HOUY YUH; ANTHONY HORGAN; MARKUS SILVESTRI; ROBERT YU; YUHUA TONG; DALE REUFER; KENNY THAN BINH; GEOFF FOLEY; JACK YANUS; TIMOTHY FULLER
 Earliest Priority Filing Date: 12/16/02

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

See formula (ii) in claim (i) attached

note meta-substitution of -CH=CH-
 to triphenylamine group

SCIENTIFIC REFERENCE BR
 Sci & Tech Inf. Ctr.

MAY 19 REC'D

Pat. & T.M. Office

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Searcher: Ed
 Searcher Phone #: _____
 Searcher Location: _____
 Date Searcher Picked Up: _____
 Date Completed: 5-25-05
 Searcher Prep & Review Time: _____
 Clerical Prep Time: _____
 Online Time: _____

Type of Search

NA Sequence (#) _____ STN _____
 AA Sequence (#) _____ Dialog _____
 Structure (#) _____ Questel/Orbit _____
 Bibliographic _____ Dr. Link _____
 Litigation _____ Lexis/Nexis _____
 Fulltext _____ Sequence Systems _____
 Patent Family _____ WWW/Internet _____
 Other _____ Other (specify) _____

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FILE 'REGISTRY' ENTERED AT 15:47:59 ON 25 MAY 2005
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L3 1047 S L1 FUL
SAV L3 DOT380/A

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L4 STR

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FILE 'ZCAPLUS' ENTERED AT 15:46:13 ON 25 MAY 2005
L8 6 S L6

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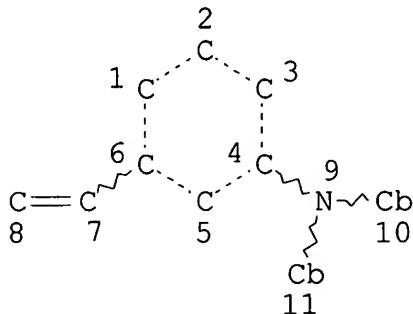
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STEREO ATTRIBUTES: NONE

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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

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100.0% PROCESSED 48 ITERATIONS
 SEARCH TIME: 00.00.01

35 ANSWERS

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L8 ANSWER 1 OF 6 ZCPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:253750 ZCPLUS
 DN 142:325662
 ED Entered STN: 24 Mar 2005
 TI Ethynylsilane copolymers useful as hole-transporting materials for
 organic electroluminescent devices
 IN Oshita, Joji; Kunai, Atsuaki
 PA Tokuyama Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 23 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08G077-60
 ICS C08G061-12; H05B033-14; H05B033-22
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
 Properties)
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2005075935	A2	20050324	JP 2003-308411	200309 01

PRAI JP 2003-308411 20030901

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2005075935	ICM	C08G077-60
	ICS	C08G061-12; H05B033-14; H05B033-22
JP 2005075935	FTERM	3K007/AB01; 3K007/AB14; 3K007/CB04; 3K007/DB03; 4J032/CA61; 4J032/CB08; 4J032/CD01; 4J032/CD08; 4J032/CG03; 4J246/AA05; 4J246/AA06; 4J246/AA07; 4J246/AB02; 4J246/BB15X; 4J246/BB150; 4J246/BB151; 4J246/BB16X; 4J246/BB160; 4J246/BB161; 4J246/BB20X; 4J246/BB200; 4J246/BB201; 4J246/BB32X; 4J246/BB320; 4J246/BB321; 4J246/BB340; 4J246/BB45X; 4J246/BB450; 4J246/BB451; 4J246/CA230; 4J246/CA26X; 4J246/CA390; 4J246/CA40X; 4J246/CA420; 4J246/CA440; 4J246/CA450;

4J246/CA530; 4J246/CA760; 4J246/CA770;
 4J246/CA780; 4J246/CA800; 4J246/FA021;
 4J246/FA151; 4J246/FA171; 4J246/FA431;
 4J246/FA451; 4J246/FB213; 4J246/FB302;
 4J246/FC131; 4J246/FC213; 4J246/FE04; 4J246/GA01;
 4J246/GA02; 4J246/GC12; 4J246/GC21; 4J246/GD08;
 4J246/HA16

AB The copolymers, showing Mw 500-100,000, have repeating units (A) C.tplbond.CAr1 and (B) C.tplbond.C(SiR1R2)nc.tplbond.CAr2 [R1, R2 = (substituted) alkyl, aryl, heteroaryl; Ar1, Ar2 = (substituted) C10-100 arylene, N-contg. heterocyclic C3-100 .pi.-excessive heteroarylene, N-free heterocyclic C8-100 .pi.-excessive heteroarylene, specific styrylene, specific phenylenevinylene, etc.; n = 1-10], satisfying no. of unit ratio B/A 0.01-500. The ethynylsilane copolymer hole-transporting materials show good heat resistance.

ST ethynylsilane polymer hole transport org electroluminescent device; heat resistance dibutyldiethynylsilane dibromonaphthalene polymer

IT Polycarbosilanes
 (Polyacetylene-polyamine-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT Luminescent substances
 (electroluminescent; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT Hole transport
 (ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT Electroluminescent devices
 (org.; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT Polycarbosilanes
 (polyacetylene-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT Polyamines
 (polyacetylene-polycarbosilane-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices),

IT Polyacetylenes, uses
 (polyamine-polycarbosilane-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT Polyacetylenes, uses
 (polycarbosilane-; ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT 637356-40-2P 637356-41-3P 637356-42-4P 637356-43-5P
 848150-97-0P 848150-98-1P 848151-01-9P 848151-02-0P
848151-04-2P
 (ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

IT 848151-04-2P

(ethynylsilane copolymers useful as hole-transporting materials for org. electroluminescent devices)

RN 848151-04-2 ZCAPLUS

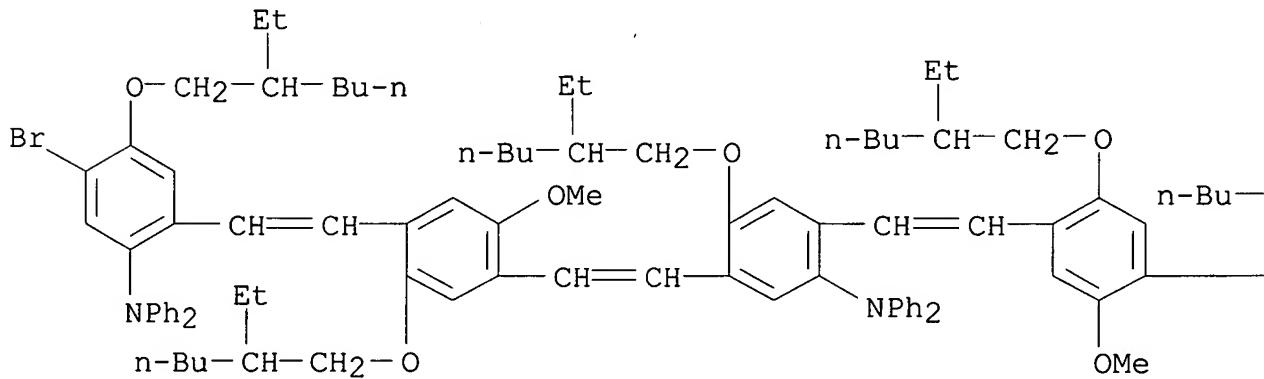
CN Benzenamine, 5-[2-[4-[2-[4-bromo-2-(diphenylamino)-5-[(2-ethylhexyl)oxy]phenyl]ethenyl]-5-[(2-ethylhexyl)oxy]-2-methoxyphenyl]ethenyl]-2-[2-[4-[2-[4-[(2-bromoethenyl)-2-[(2-ethylhexyl)oxy]-5-methoxyphenyl]ethenyl]-5-(diphenylamino)-2-[(2-ethylhexyl)oxy]phenyl]ethenyl]-2-[(2-ethylhexyl)oxy]-5-methoxyphenyl]ethenyl]-4-[(2-ethylhexyl)oxy]-N,N-diphenyl-, polymer with diethynylidiphenylsilane (9CI) (CA INDEX NAME)

CM 1

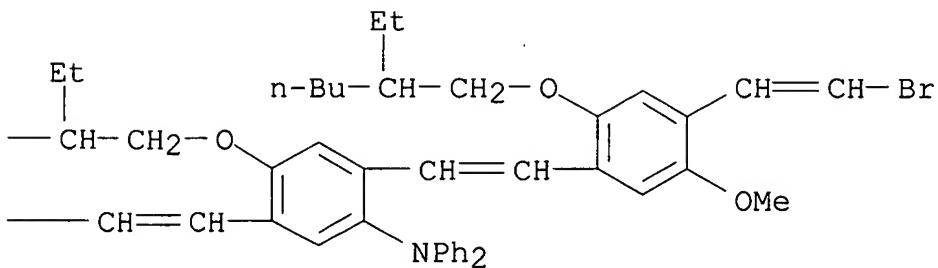
CRN 848151-03-1

CMF C135 H165 Br2 N3 O9

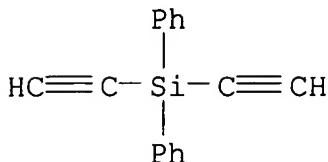
PAGE 1-A



PAGE 1-B



CM 2

CRN 1675-57-6
CMF C16 H12 Si

L8 ANSWER 2 OF 6 ZCPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:254973 ZCPLUS
 DN 134:282135
 ED Entered STN: 11 Apr 2001
 TI Stilbenes having good compatibility with binder resins and charge
 transporting capabilities, production method thereof, and
 electrophotographic photoreceptors therewith
 IN Inagaki, Yoshio; Watanabe, Yukimasa
 PA Kyocera Mita Industrial Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 28 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C09B023-00
 ICS C07C209-78; C07C211-54; G03G005-06
 CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and
 Photographic Sensitzers)
 Section cross-reference(s): 25, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001098176	A2	20010410	JP 1999-277048	19990929
	JP 3568431	B2	20040922		
	US 6338927	B1	20020115	US 2000-648078	20000825

PRAI JP 1999-277048 A 19990929

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

JP 2001098176 ICM C09B023-00

US 6338927 ICS C07C209-78; C07C211-54; G03G005-06
 NCL 430/073.000; 430/083.000; 564/434.000
 ECLA G03G005/06B5B; G03G005/06H2D

OS MARPAT 134:282135

AB Title stilbenes have triphenylamino groups on the both sides of the center benzene ring, where the triphenylamino groups are asym. with each other. Thus, a compn. contg. phthalocyanine (CG 1) 5, polycarbonate 100, and THF 800 parts and a stilbene deriv. obtained by reaction of 4-phosphate diethyltryphenylamine (sic) and 2-ethyl-6-methyl-4'-(4-formylstyryl)triphenylamine were mixed, applied on an Al element tube, and dried to give a single layer type photoreceptor.

ST stilbene contg triphenylamino group prepn; electrophotog photoreceptor charge transporting agent stilbene

IT Polycarbonates, uses
 (binders in photoreceptors; prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT Electrophotographic photoconductors (photoreceptors)
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT 574-93-6, Phthalocyanine
 (charge generator in photoreceptor; prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT 332411-36-6P 332411-38-8P 332411-40-2P **332411-42-4P**
 332411-43-5P
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

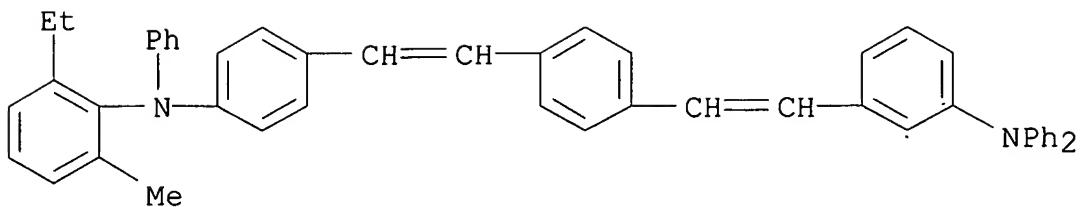
IT 4181-05-9P, 4-Formyltriphenylamine 25069-40-3P,
 4-Hydroxymethyltriphenylamine 42906-19-4P 126150-12-7P
 138627-45-9P 155079-25-7P 160064-57-3P 253313-04-1P,
 3-Formyltriphenylamine 256660-20-5P 332411-18-4P 332411-23-1P
 332411-25-3P 332411-27-5P 332411-33-3P
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT 101-02-0, Triphenyl phosphite 603-34-9, Triphenylamine
 7647-01-0, Hydrochloric acid, reactions 13511-11-0 20440-95-3
 97802-65-8 256660-16-9 332411-20-8
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

IT **332411-42-4P**
 (prepn. of triphenylamino group-contg. stilbenes useful as charge transporting agents in electrophotog. photoreceptors)

RN 332411-42-4 ZCAPLUS

CN Benzenamine, 3-[2-[4-[2-[4-[(2-ethyl-6-methylphenyl)phenylamino]phenyl]ethenyl]phenyl]ethenyl]-N,N-diphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 6 ZCPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:544812 ZCPLUS
 DN 133:170214
 ED Entered STN: 09 Aug 2000
 TI Stilbene derivative and electrophotographic photoreceptor using same
 IN Watanabe, Yukimasa; Kawaguchi, Hirofumi
 PA Kyocera Mita Industrial Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 57 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C07C211-54
 ICS G03G005-06
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 Section cross-reference(s): 25

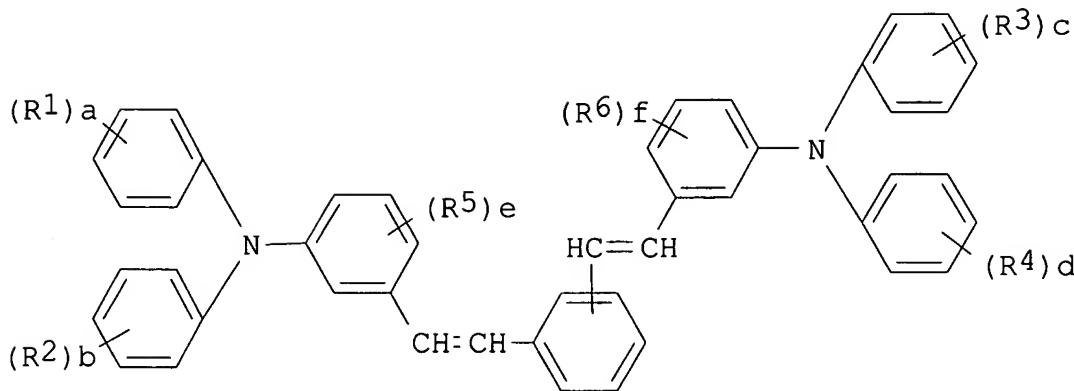
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000219660	A2	20000808	JP 1999-23261	199901 29
PRAI	JP 3619696	B2	20050209		
	JP 1999-23261		19990129		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000219660	ICM	C07C211-54
	ICS	G03G005-06

OS MARPAT 133:170214
 GI



AB The title stilbene deriv. has the general formula I [R1-6 = alkyl, aryl, aralkyl, alkoxy (these groups may be substituted and R1-6 are the same or different); a, b, c, d, e, f = 0-5, when a, b, c, d, e, f ≥ 2 , each of the plural R1-6 groups may be different]. The photoreceptor comprises a conductive substrate coated with a photosensitive layer contg. the compd. The compd. shows good compatibility with binders and is useful as a charge-transporting agent and the photoreceptor shows improved photosensitivity.

ST electrophotog photoreceptor stilbene pos hole transporting agent

IT Electrophotographic photoconductors (photoreceptors)

(electrophotog. photoreceptor using stilbene deriv. as pos. hole-transporting agent)

IT 163487-35-2P 287936-62-3P 287936-63-4P

287936-64-5P 287936-65-6P 287936-66-7P

287936-67-8P 287936-68-9P 287936-69-0P

287936-70-3P 287936-71-4P 287936-72-5P

287936-73-6P 287936-74-7P 287936-75-8P

287936-76-9P 287936-77-0P 287936-78-1P

287936-79-2P 287936-80-5P 287936-81-6P

287936-82-7P 287936-83-8P 287936-84-9P

287936-85-0P 287936-86-1P 287936-87-2P

287936-88-3P 287936-89-4P 287936-90-7P

287936-91-8P

(electrophotog. photoreceptor using stilbene deriv. as pos. hole-transporting agent)

IT 253313-04-1P, 3-Formyltriphenylamine 287937-01-3P 287937-02-4P

287937-03-5P 287937-04-6P 287937-05-7P 287937-06-8P

287937-07-9P 287937-08-0P 287937-09-1P 287937-10-4P

(prepn. and reaction with biphenyl)

IT 287936-92-9P 287936-93-0P 287936-94-1P 287936-95-2P

287936-96-3P 287936-97-4P 287936-98-5P 287936-99-6P

287937-00-2P

(prepn. and redn. to form formyl triphenylamine compd.)

IT 78-40-0, Triethyl phosphate 612-12-4 623-25-6 626-16-4
 (prepn. of biphenylate)

IT 591-50-4, Iodobenzene 608-28-6, 2-Iodo-m-xylene 615-37-2,
 2-Iodotoluene 624-31-7, 4-Iodotoluene 625-95-6, 3-Iodotoluene
 2237-30-1, 3-Aminobenzonitrile 4214-28-2, 4-Iodo-m-xylene
 17356-09-1, 1-Iodo-4-isopropylbenzene 18282-40-1,
 1-Ethyl-2-iodobenzene 25309-64-2 31599-60-7, 3-Iodo-o-xylene
 (prepn. of triphenylamine deriv.)

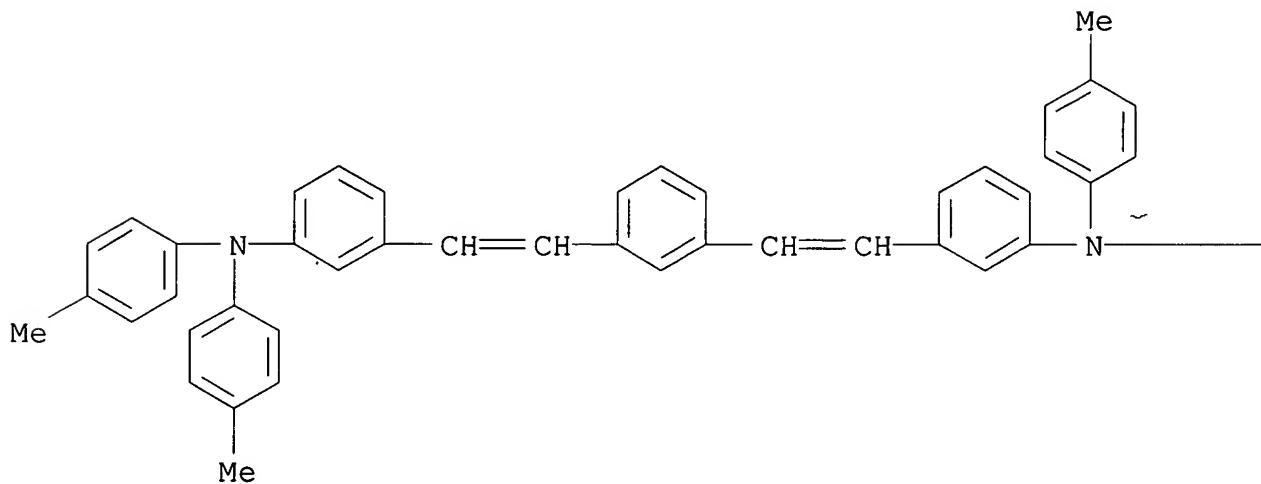
IT 1191-15-7, Diisobutylaluminum hydride
 (redn. of cyanotriphenylamine)

IT **163487-35-2P 287936-62-3P 287936-63-4P**
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287936-67-8P 287936-68-9P 287936-69-0P
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287936-73-6P 287936-74-7P 287936-75-8P
287936-76-9P 287936-77-0P 287936-78-1P
287936-79-2P 287936-80-5P 287936-81-6P
287936-82-7P 287936-83-8P 287936-84-9P
287936-85-0P 287936-86-1P 287936-87-2P
287936-88-3P 287936-89-4P 287936-90-7P
287936-91-8P
 (electrophotog. photoreceptor using stilbene deriv. as pos.
 hole-transporting agent)

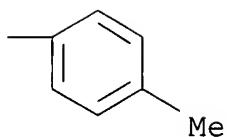
RN 163487-35-2 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)]

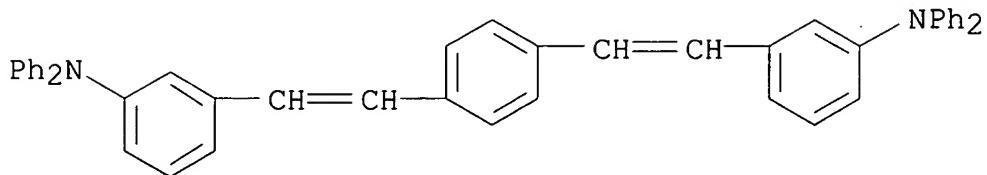
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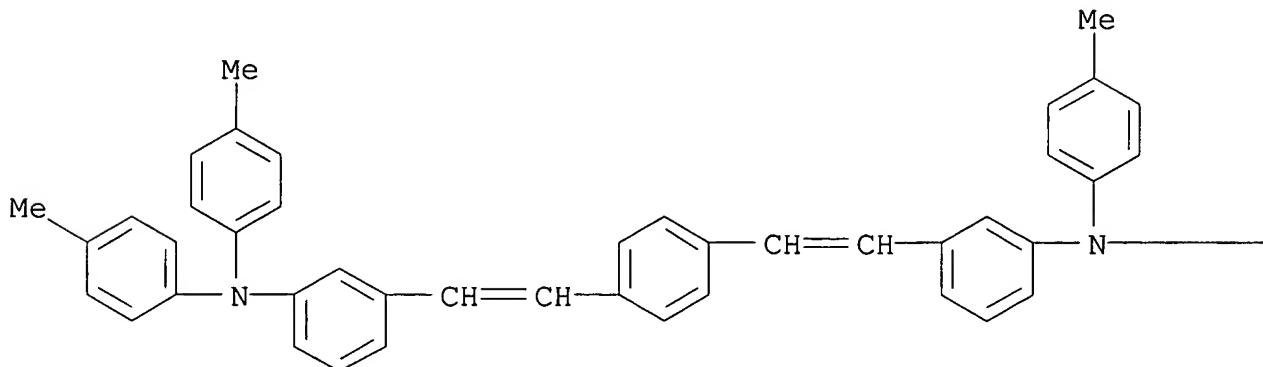
RN 287936-62-3 ZCPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-diphenyl-
(9CI) (CA INDEX NAME)]

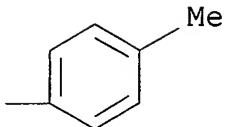
RN 287936-63-4 ZCPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-
methylphenyl)- (9CI) (CA INDEX NAME)]

PAGE 1-A



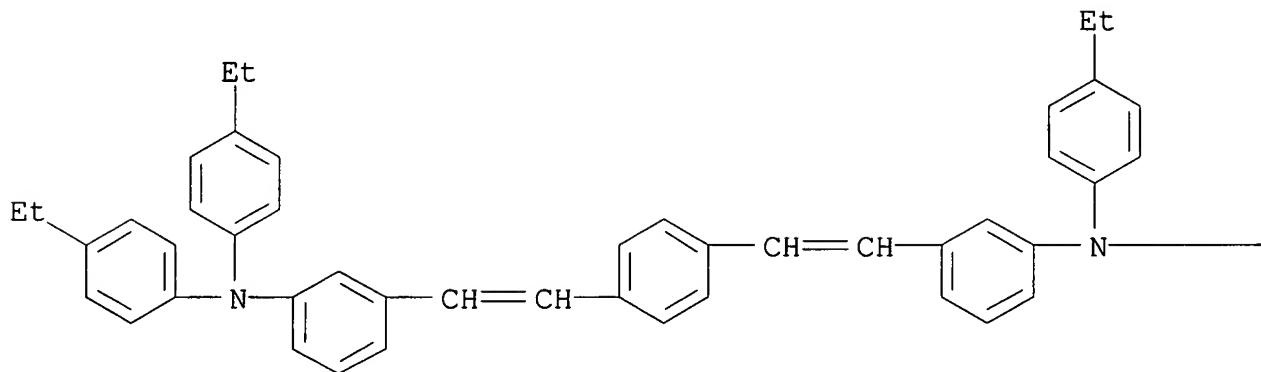
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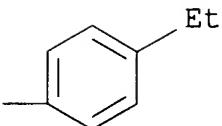
RN 287936-64-5 ZCPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-ethylphenyl)- (9CI) (CA INDEX NAME)]

PAGE 1-A



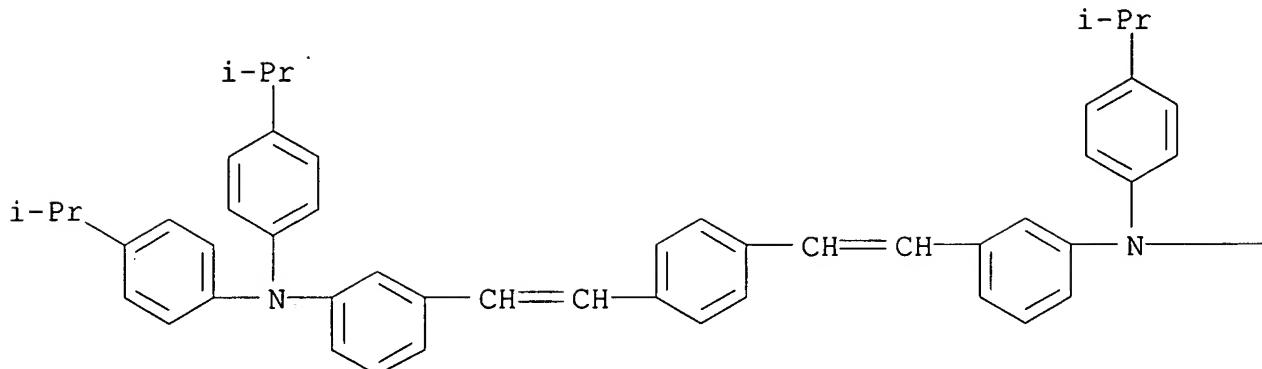
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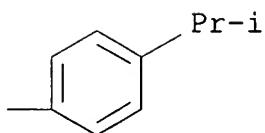
RN 287936-65-6 ZCPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)]

PAGE 1-A

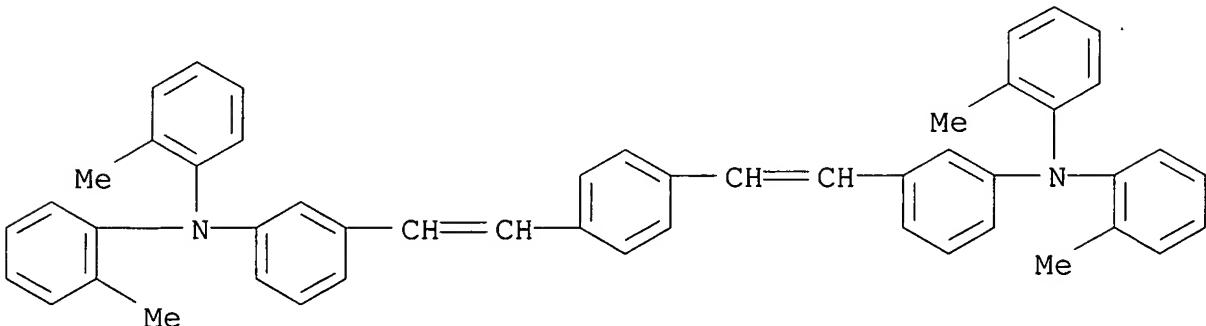


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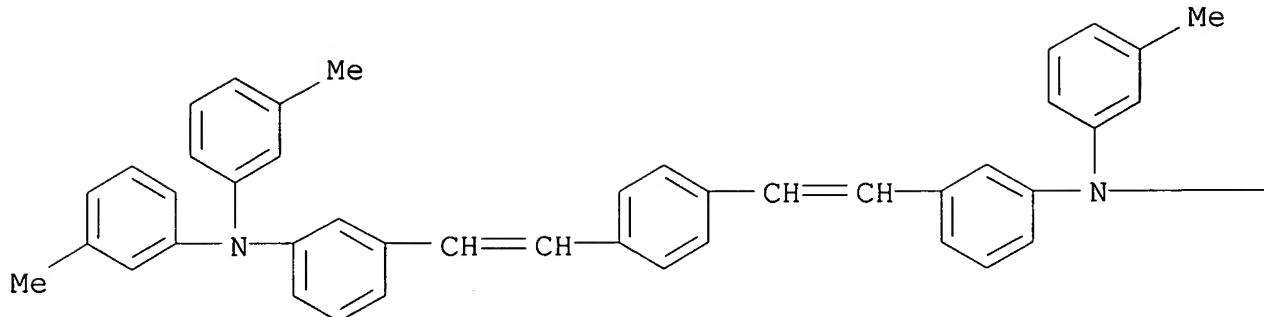
CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-methylphenyl)- (9CI) (CA INDEX NAME)



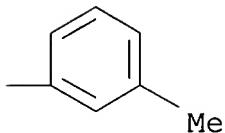
RN 287936-67-8 ZCPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

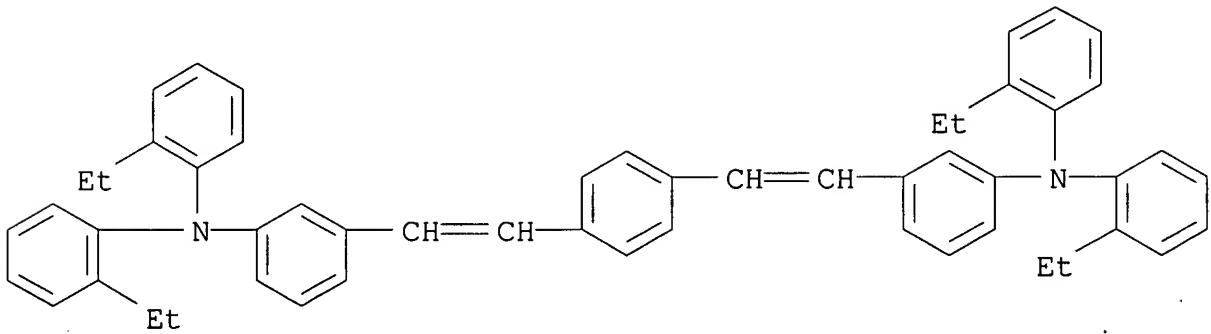


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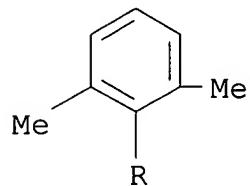
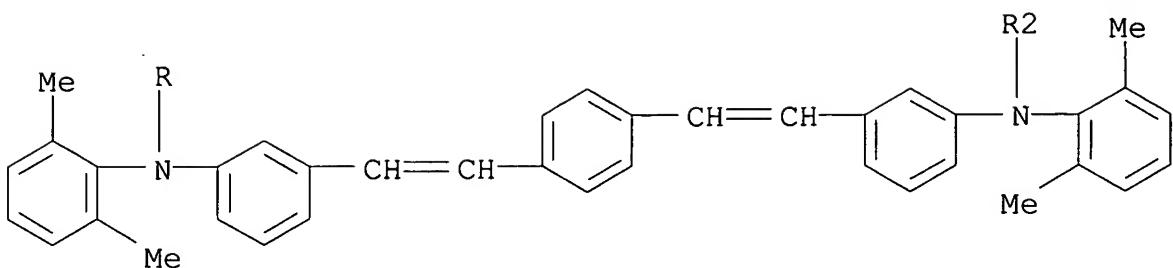
CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-ethylphenyl)]- (9CI) (CA INDEX NAME)



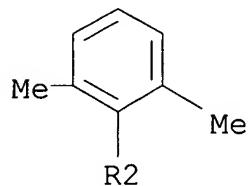
RN 287936-69-0 ZCPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,6-dimethylphenyl)]- (9CI) (CA INDEX NAME)

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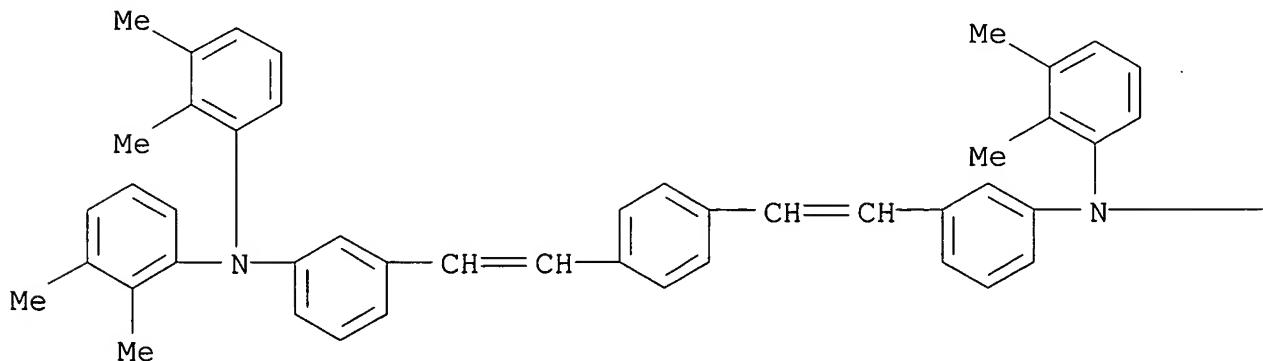


PAGE 2-A

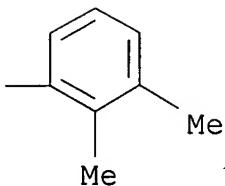


RN 287936-70-3 ZCPLUS
 CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,3-dimethylphenyl)- (9CI) (CA INDEX NAME)

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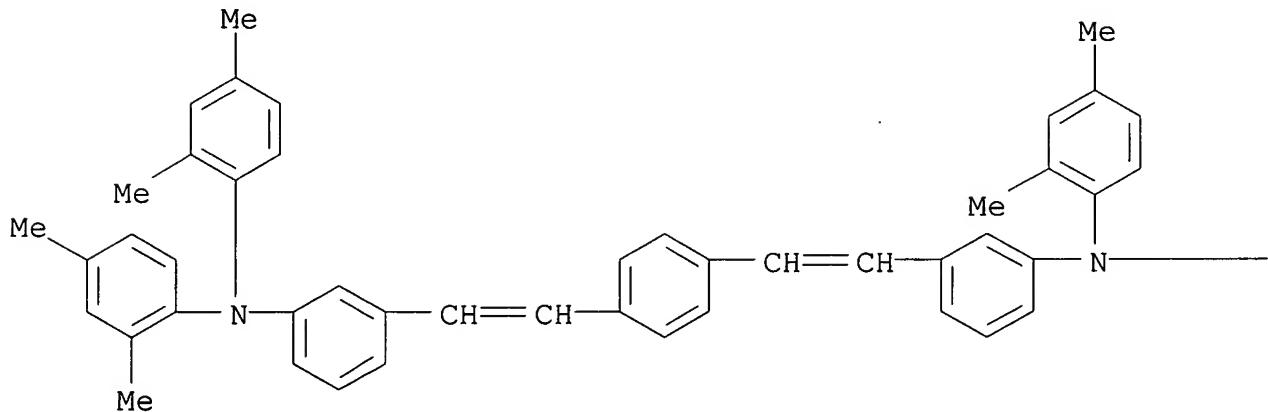


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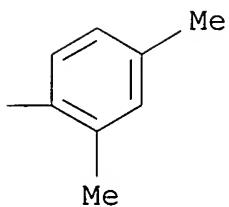


RN 287936-71-4 ZCPLUS
CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4-dimethylphenyl)- (9CI) (CA INDEX NAME)

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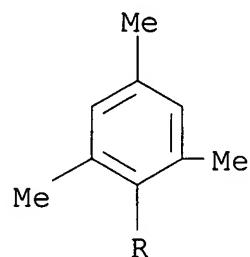
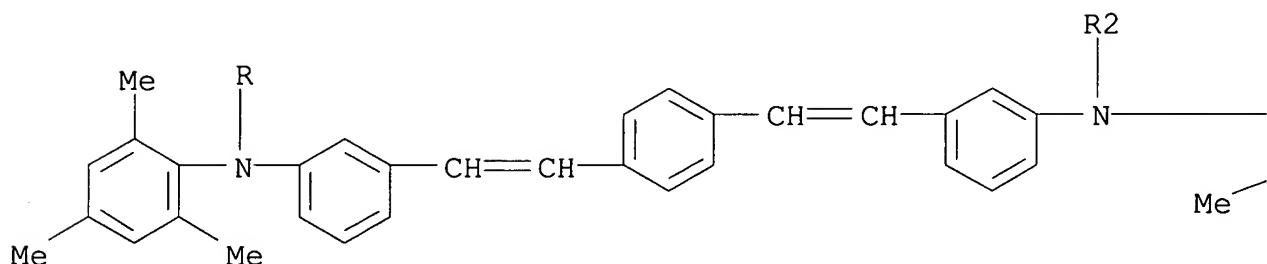
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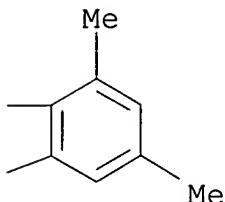
RN 287936-72-5 ZCPLUS

CN Benzenamine, 3,3'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

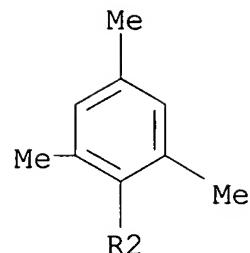
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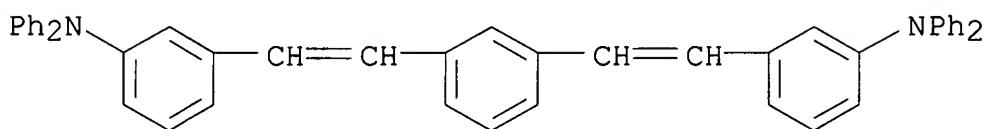
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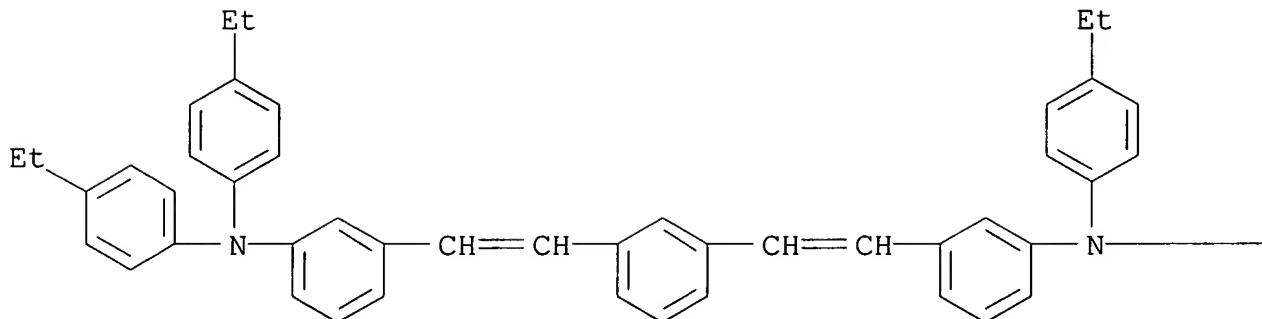
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CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-diphenyl-
(9CI) (CA INDEX NAME)]

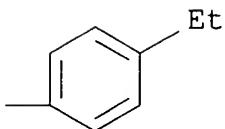
RN 287936-74-7 ZCPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-
ethylphenyl)- (9CI) (CA INDEX NAME)]

PAGE 1-A



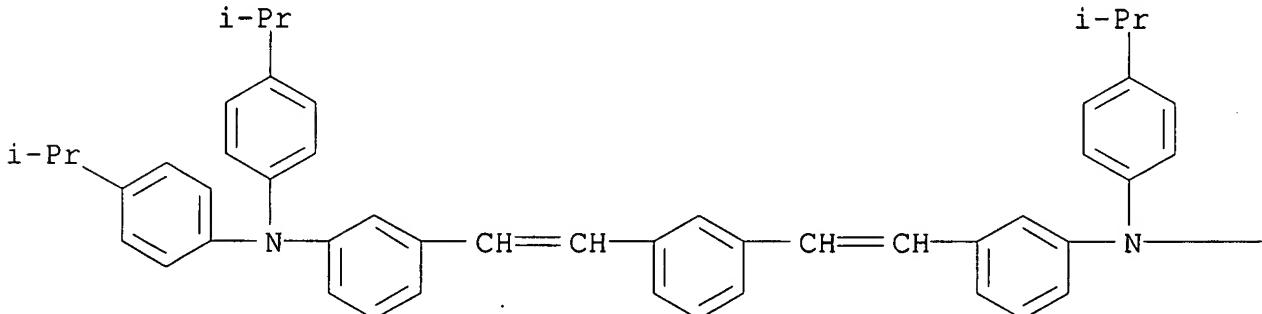
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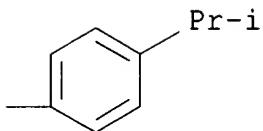
RN 287936-75-8 ZCAPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

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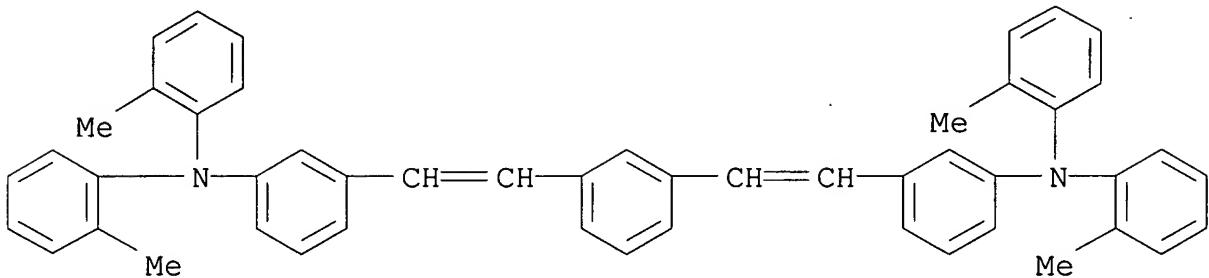


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RN 287936-76-9 ZCPLUS

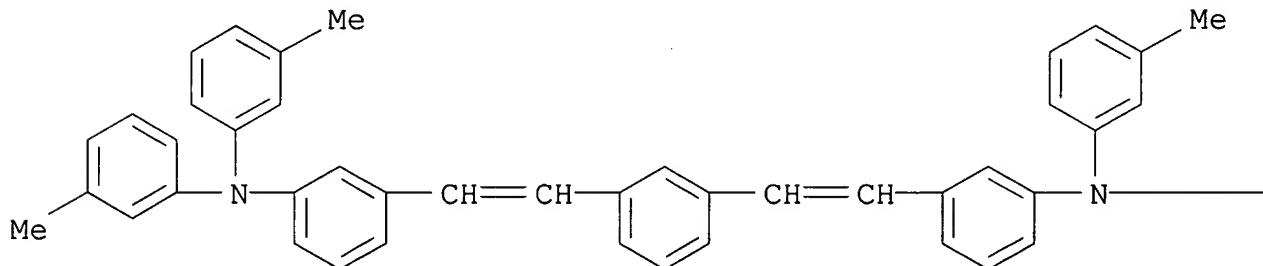
CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-methylphenyl)- (9CI) (CA INDEX NAME)]



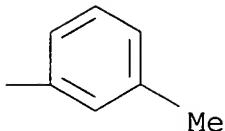
RN 287936-77-0 ZCPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)]

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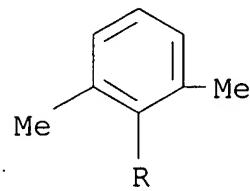
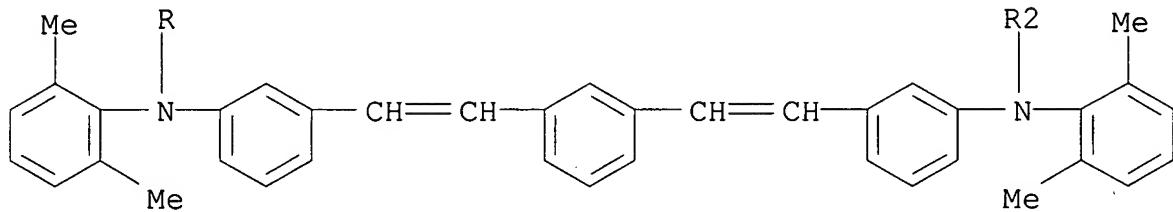
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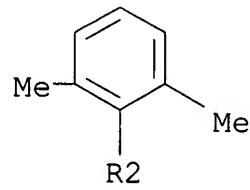
RN 287936-78-1 ZCPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,6-dimethylphenyl)- (9CI) (CA INDEX NAME)]

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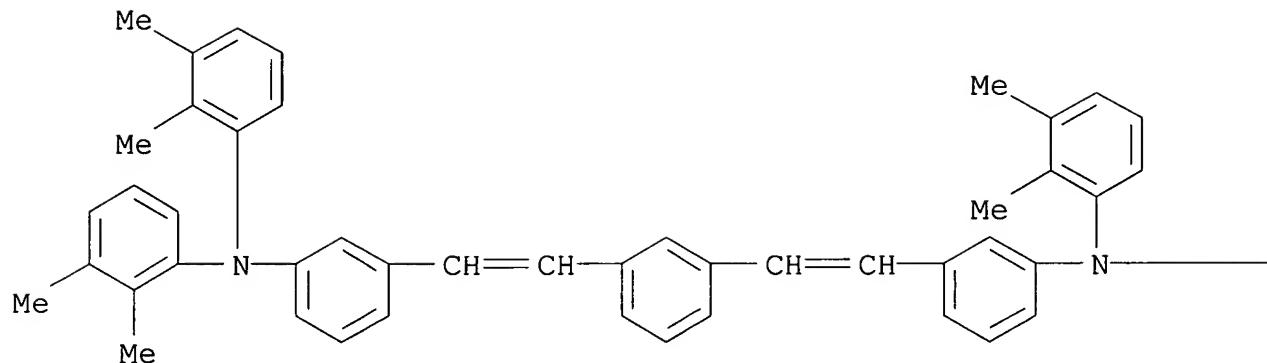
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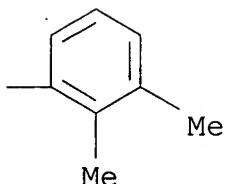
RN 287936-79-2 ZCPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,3-dimethylphenyl)- (9CI) (CA INDEX NAME)]

PAGE 1-A



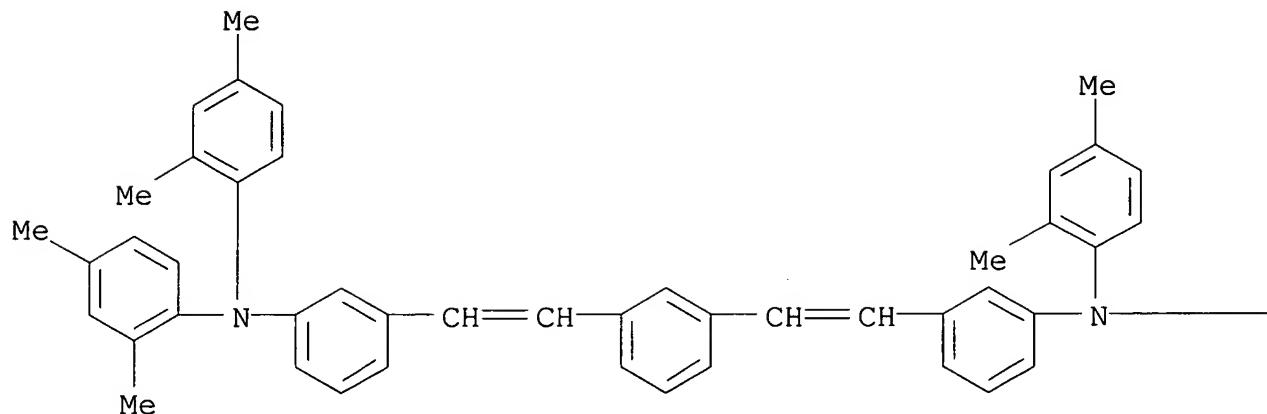
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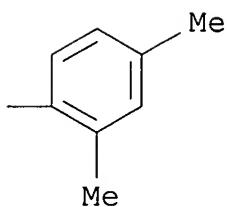
RN 287936-80-5 ZCPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4-dimethylphenyl)- (9CI) (CA INDEX NAME)]

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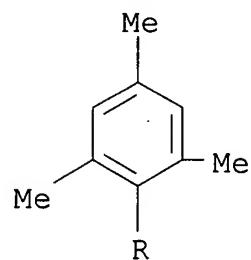
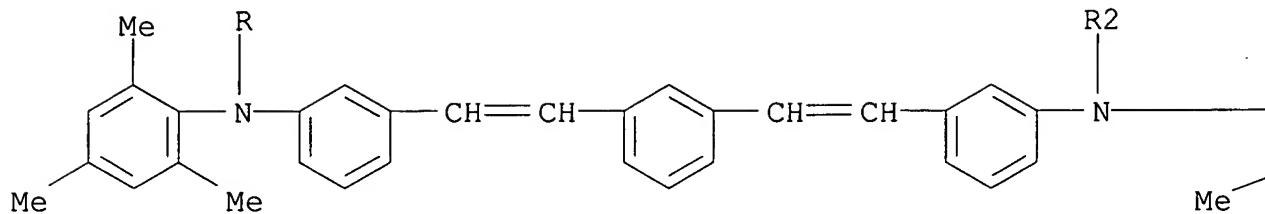
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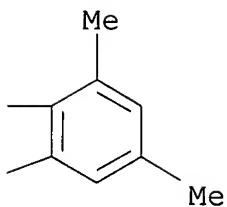
RN 287936-81-6 ZCPLUS

CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)]

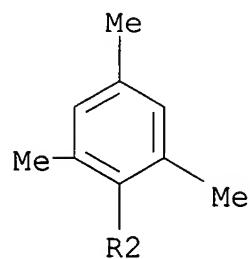
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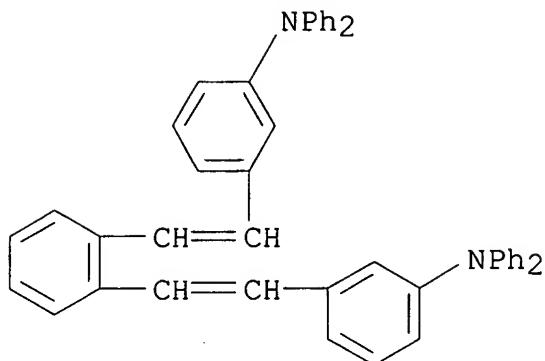


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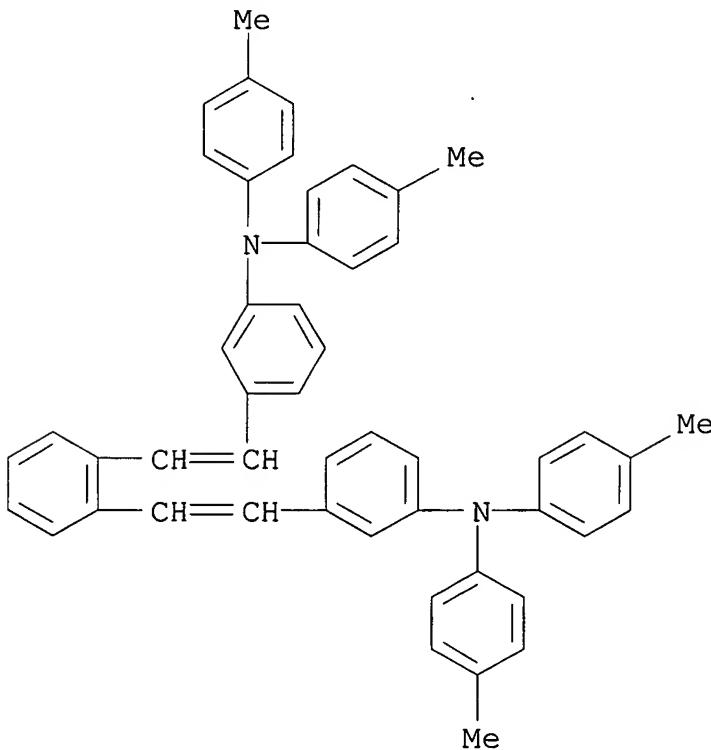
RN 287936-82-7 ZCPLUS
 CN Benzenamine, 3,3'-(1,2-phenylenediyl-2,1-ethenediyl)bis[N,N-diphenyl-

(9CI) (CA INDEX NAME)



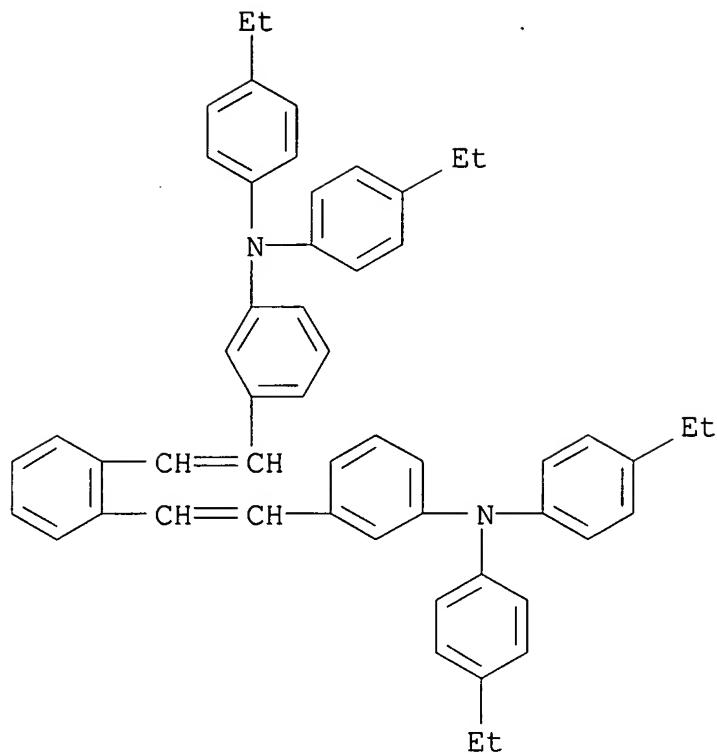
RN 287936-83-8 ZCPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-methylphenyl)-] (9CI) (CA INDEX NAME)



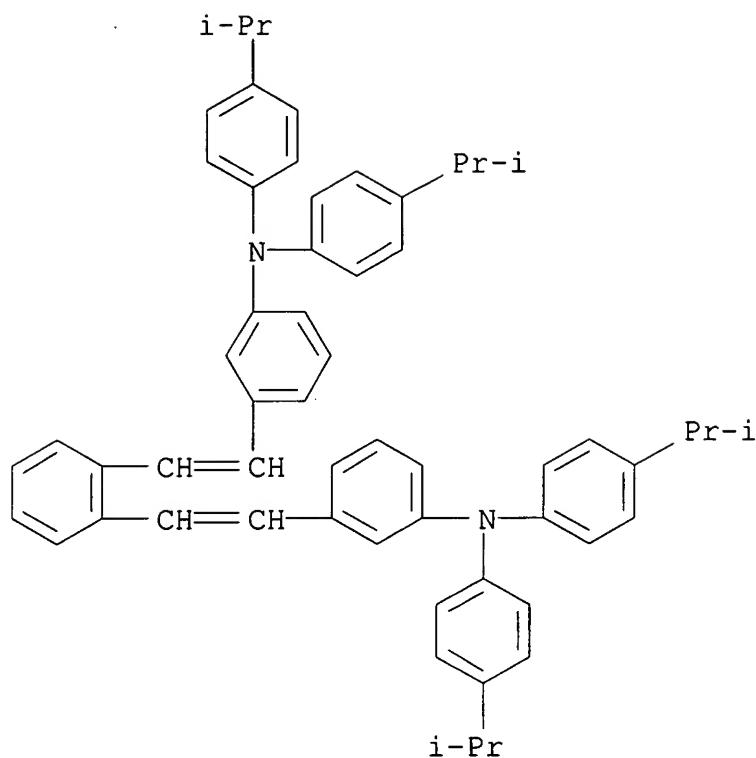
RN 287936-84-9 ZCPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-ethylphenyl)-] (9CI) (CA INDEX NAME)



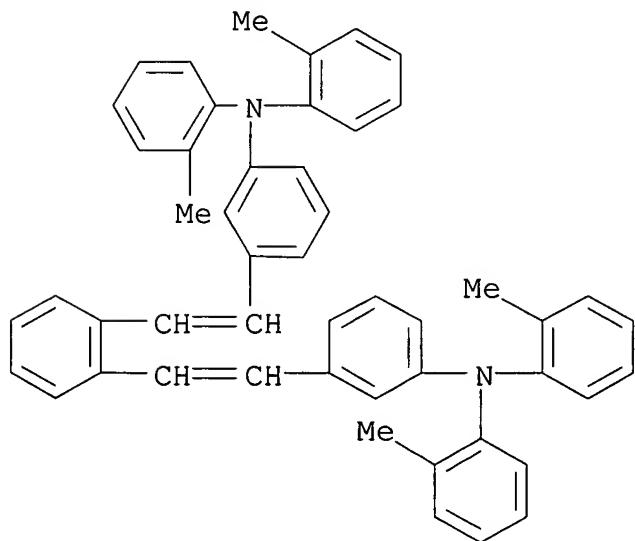
RN 287936-85-0 ZCPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

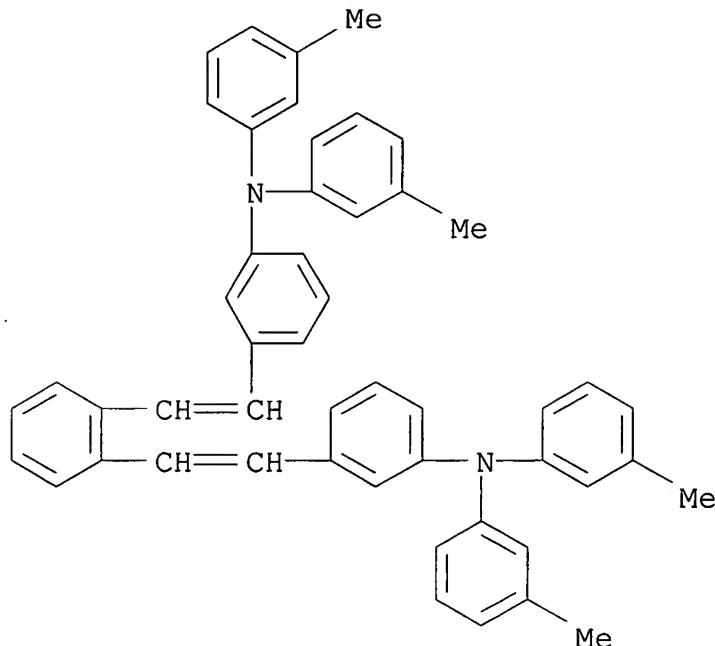


RN 287936-86-1 ZCPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2-methylphenyl)- (9CI) (CA INDEX NAME)

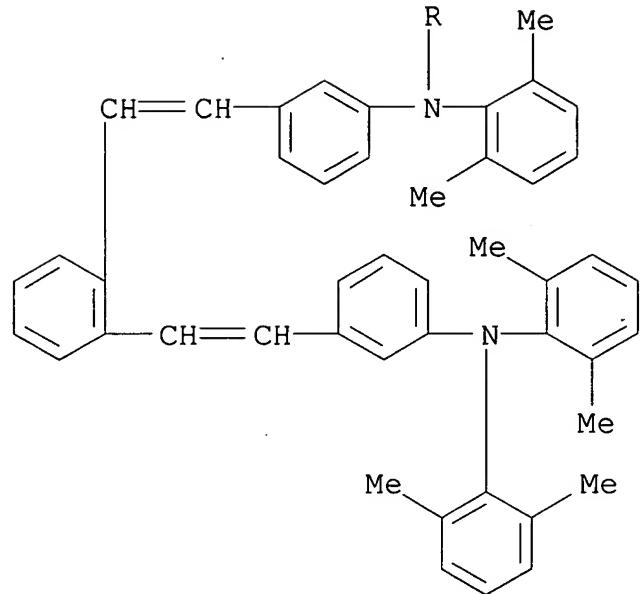


RN 287936-87-2 ZCPLUS
CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)

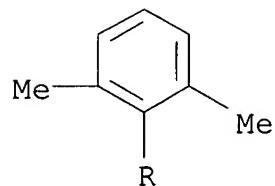


RN 287936-88-3 ZCPLUS
CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,6-dimethylphenyl)- (9CI) (CA INDEX NAME)

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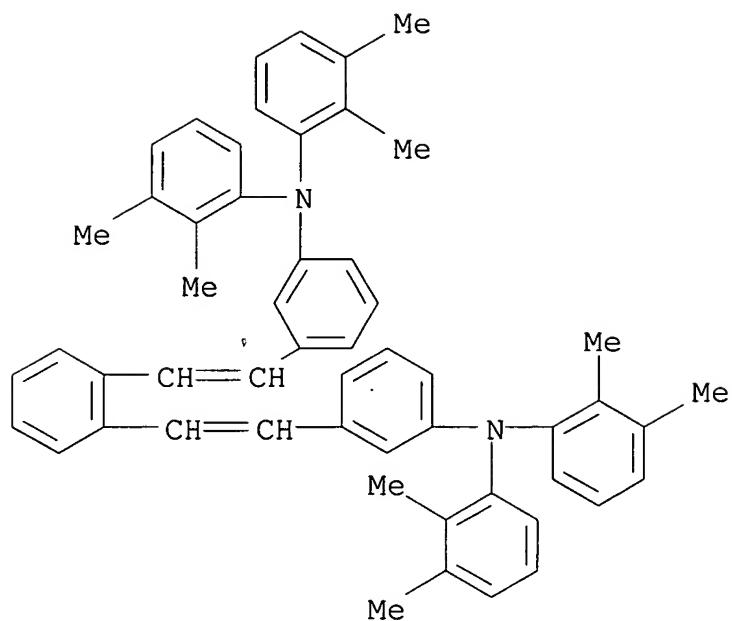


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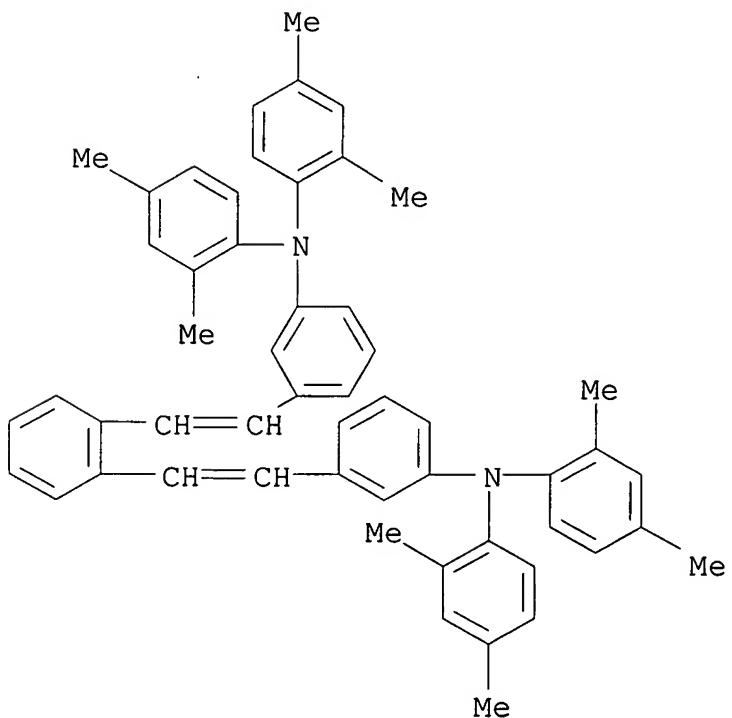
RN 287936-89-4 ZCPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,3-dimethylphenyl)- (9CI) (CA INDEX NAME)



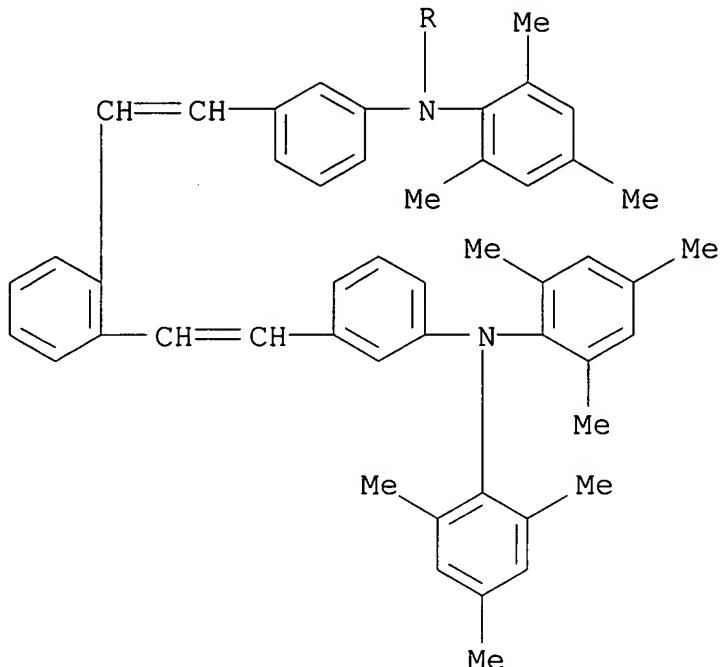
RN 287936-90-7 ZCPLUS

CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4-dimethylphenyl)] (9CI) (CA INDEX NAME)

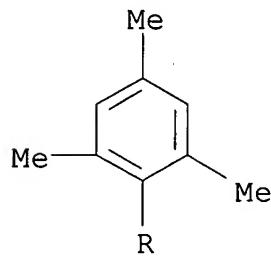


RN 287936-91-8 ZCPLUS
 CN Benzenamine, 3,3'-(1,2-phenylenedi-2,1-ethenediyl)bis[N,N-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)]

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L8 ANSWER 4 OF 6 ZCPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:833218 ZCPLUS
 DN 123:241441
 ED Entered STN: 05 Oct 1995

TI Organic thin film electroluminescence device
IN Tomiuchi, Yoshimasa; Kawate, Kenji; Nabeta, Osamu; Yamazaki, Mikio;
Amano, Masayo; Kuroda, Masami; Kobayashi, Makoto
PA Fuji Electric Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09K011-06
ICS H05B033-14
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
Properties)
Section cross-reference(s): 74

FAN.CNT 1

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PI	JP 07188649	A2	19950725	JP 1994-148798	199406 30

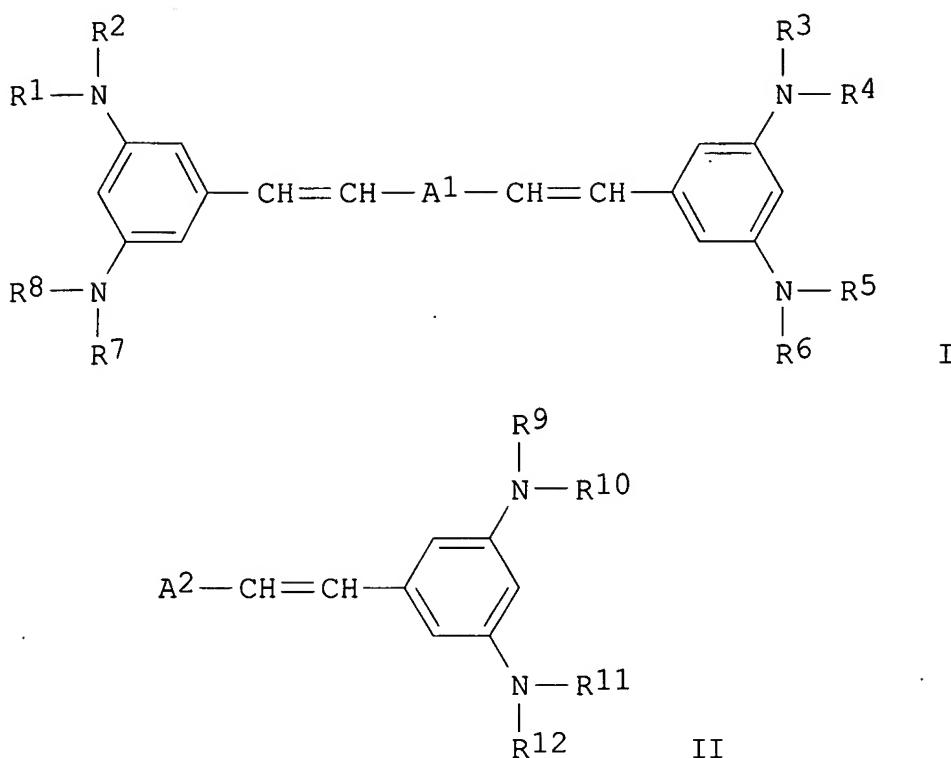
PRAI JP 1994-148798 A 19940630
JP 1993-288873 19931118

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	JP 07188649	ICM	C09K011-06
		ICS	H05B033-14

OS MARPAT 123:241441

GI



AB The title device, suited for use as light source in a flat-display panel, comprising a light emitting layer and a charge injection layer interposed between a pair of electrodes, wherein the hole injection layer is made of styryl compds. represented by I [R1-R8 = H, alkyl, (un)substituted aryl; A1 = (un)substituted aryl, arom. heterocyclic group] and II [R9-R12 = H, alkyl, (un)substituted aryl; A2 = (un)substituted aryl, arom. heterocyclic group].

ST org thin film electroluminescence device styryl

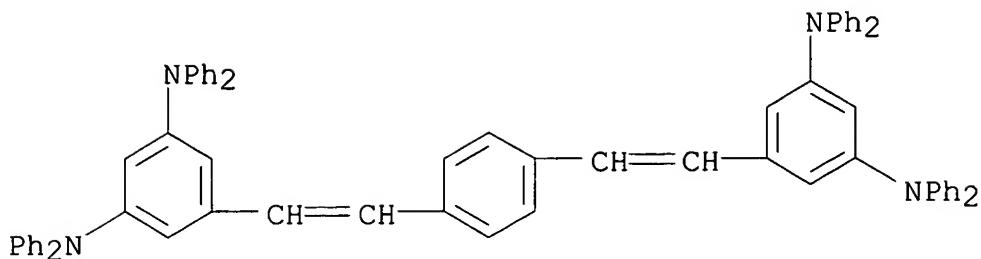
IT Electroluminescent devices
(org. thin film electroluminescence device)

IT 55035-43-3 **163622-09-1** 163622-11-5 163622-14-8
163622-15-9
(org. thin film electroluminescence device)

IT **163622-09-1**
(org. thin film electroluminescence device)

RN 163622-09-1 ZCAPLUS

CN 1,3-Benzenediamine, 5,5'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



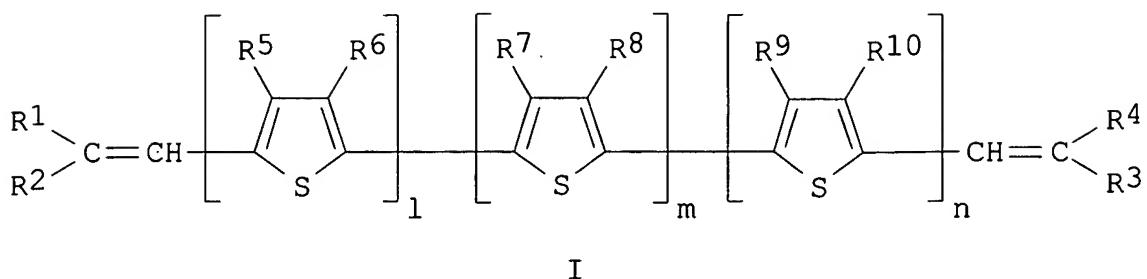
L8 ANSWER 5 OF 6 ZCPLUS COPYRIGHT 2005 ACS on STN
AN 1995:582601 ZCPLUS
DN 123:21519
ED Entered STN: 02 Jun 1995
TI Organic thin-film electroluminescence device
IN Kawate, Kenji; Kuroda, Masami; Nabetu, Osamu
PA Fuji Electric Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09K011-06
ICS H05B033-14
CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related
Properties)
FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	JP 07011243	A2	19950113	JP 1993-205464	1993020
PRAI	JP 1993-205464	A	19930820	JP 1993-101616	19930820

JP 1993-101619 19930428
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

JP 07011243 ICM C09K011-06
ICS H05B033-14

GT



AB The title device comprising a light emitting layer composed of quinolinol complexes and/or thiophenes I (R1, R2, R3, R4 = H, alkyl, aryl, cyano, heterocyclic; R5, R6, R7, R8, R9, R10 = H, halo, alkyl, alkoxy, aryl; m = 1 or 2; l, n = 0 or 1; m+l+n = integer 1 or 4), and/or other specified compd.

ST org electroluminescence device thiophenes quinolinol complex
IT Electroluminescent devices

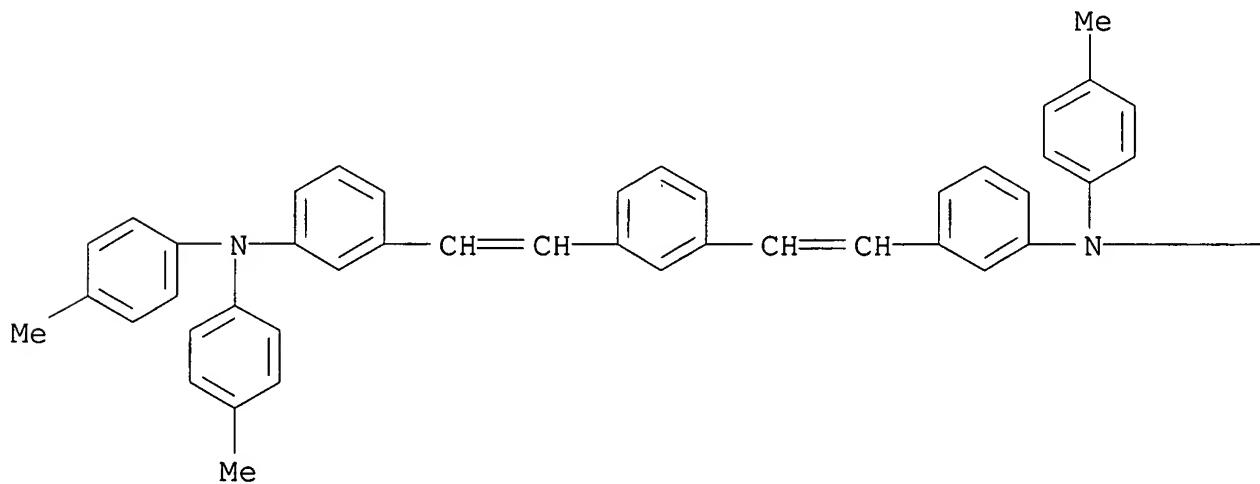
11 Electroluminescent devices
(org. thin-film electroluminescence device)
12 60-1 Thinner 60-2 55025 40-2

IT 110-02-1, Thiophene 2085-33-8 55035-42-2 58473-78-2
65181-78-4 89114-91-0 143542-32-9 163487-34-1
163487-35-2 163487-36-3 163487-37-4 163802-35-5
(org. thin-film electroluminescence device)

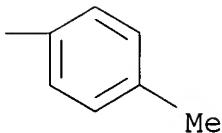
IT **163487-35-2**
(org. thin-film electroluminescence device)

RN 163487-35-2 ZCAPLUS
CN Benzenamine, 3,3'-(1,3-phenylenedi-2,1-ethenediyl)bis[N,N-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)]

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L8 ANSWER 6 OF 6 ZCPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:529161 ZCPLUS
 DN 123:22129
 ED Entered STN: 06 May 1995
 TI Electrophotographic photoreceptor containing styryl compound
 charge-transporting agent
 IN Yamazaki, Mikio; Amano, Masayo; Kuroda, Masami; Nabeta, Osamu
 PA Fuji Electric Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03G005-06
 ICS G03G005-06
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 Section cross-reference(s): 25

FAN.CNT 1

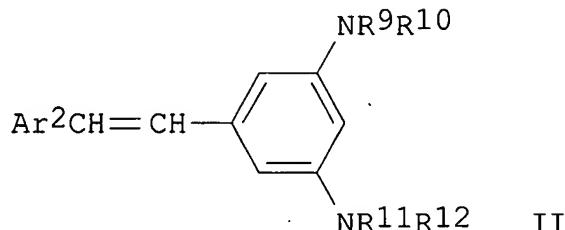
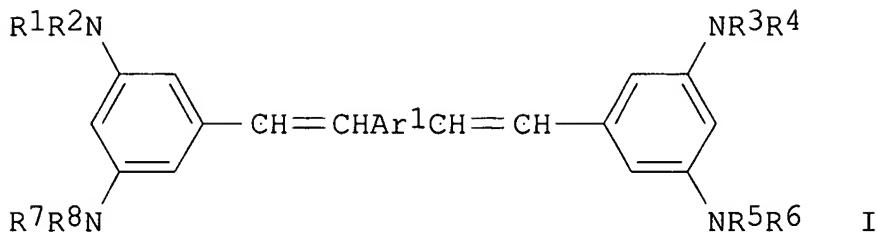
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PI	JP 07056367	A2	19950303	JP 1993-206763	199308 23

PRAI JP 1993-206763 19930823

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 07056367	ICM	G03G005-06

OS ICS G03G005-06
 OS MARPAT 123:22129
 GI



AB The photoreceptor has an elec. conductive support coated with a photosensitive layer contg. ≥ 1 styryl compd. I or II [R1-12 = H, alkyl, (substituted) aryl; Ar1-2 = (substituted) aryl, heterocyclic group] as charge-transporting agents. The photoreceptor showed high sensitivity and repeating durability.

ST electrophotog photoreceptor styryl charge transporting

IT Electrophotographic photoconductors and photoreceptors (electrophotog. photoreceptor contg. styryl compd. charge-transporting agent with high sensitivity)

IT **163622-09-1** 163622-10-4 163622-11-5 163622-12-6
 163622-13-7 163622-14-8 163622-15-9
 (electrophotog. photoreceptor contg. styryl compd. charge-transporting agent with high sensitivity)

IT **163622-09-1**
 (electrophotog. photoreceptor contg. styryl compd. charge-transporting agent with high sensitivity)

RN 163622-09-1 ZCAPLUS

CN 1,3-Benzenediamine, 5,5'-(1,4-phenylenedi-2,1-ethenediyl)bis[N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)

